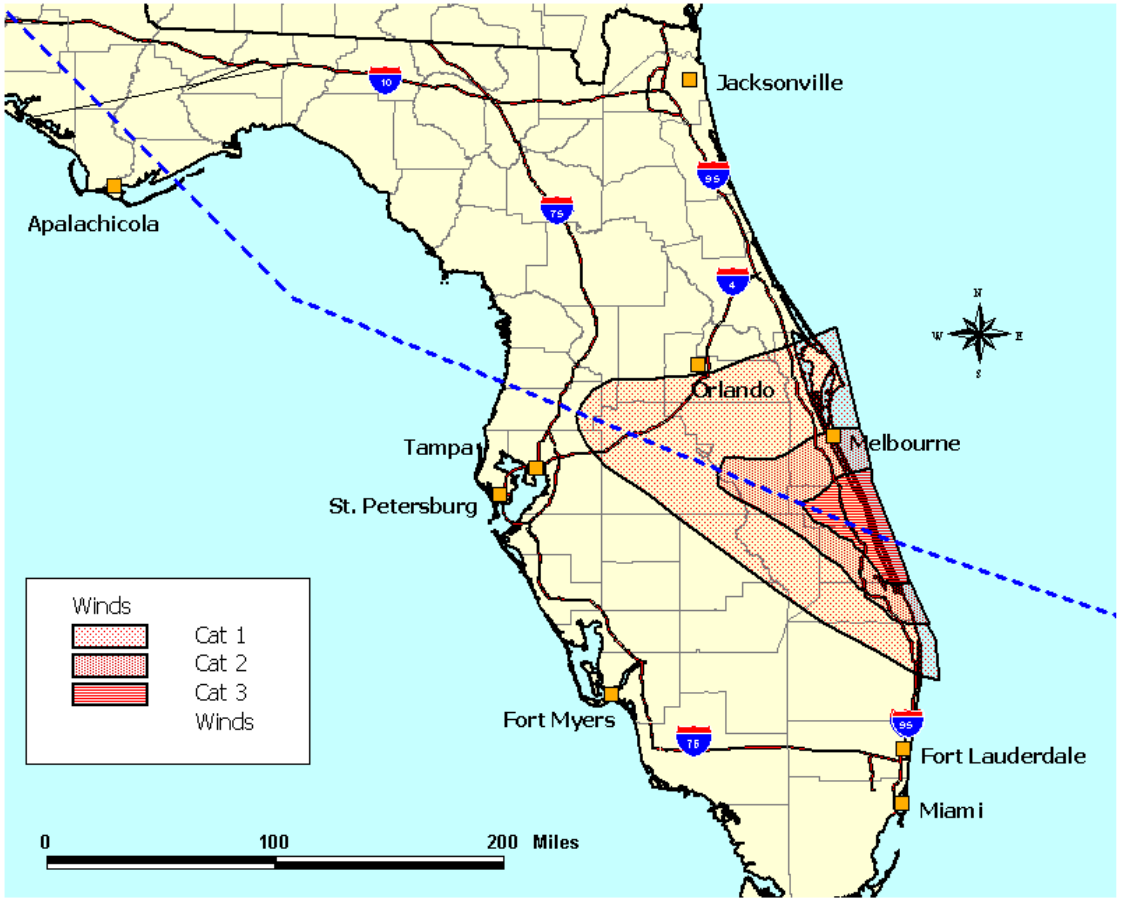
Hurricane Frances Wind Distribution

Landfall Expected Within **18** Hours

For Official Use Only!



Most Probable Landfall Wind Distribution

This hurricane scenario is based on a High Category 2 - Low Category 3 storm making landfall in near proximity to Fort Pierce, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/04/2004)*** forecast.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Wind Field

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

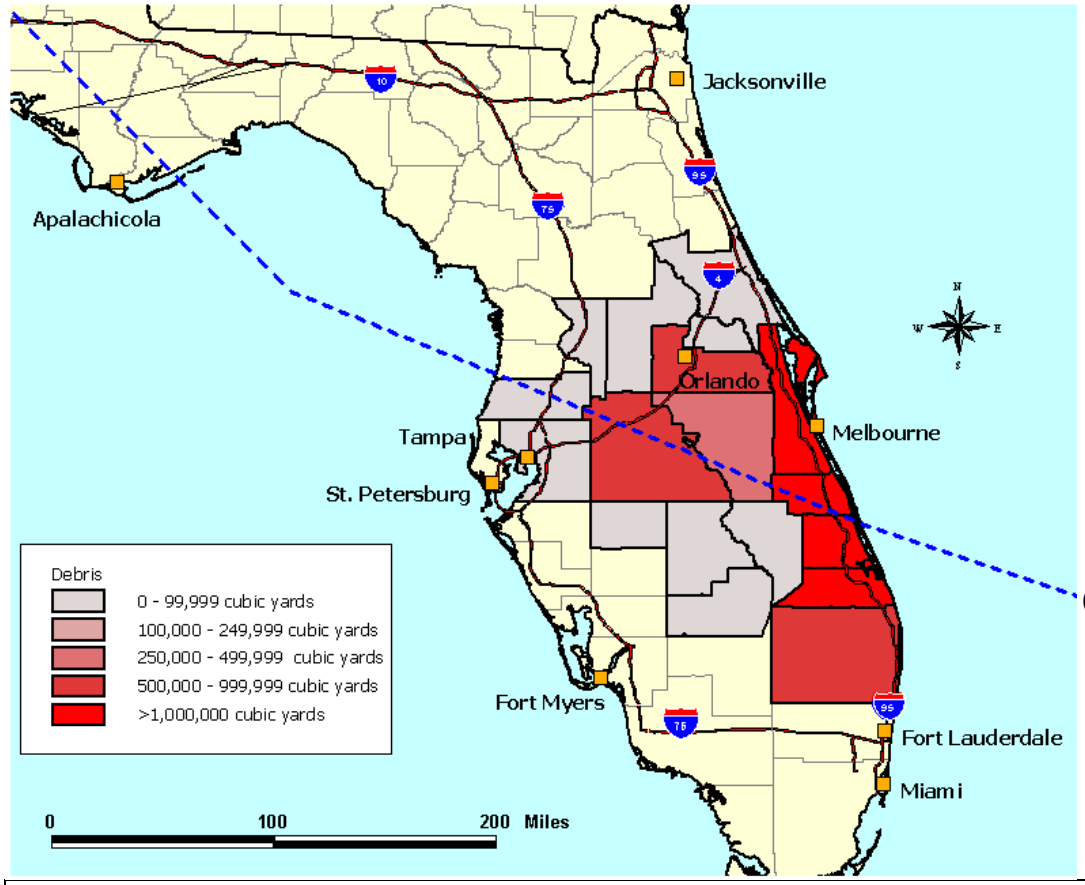
Generated By:
Terry Siemsen

Generated Date:
0600 EDT
09/04/2004

Hurricane Frances Debris Model

Landfall Expected Within **18** Hours

For Official Use Only!



Most Probable Landfall Debris Model Results

Florida – 13,705,000 yd^3

Model results per county on following page

This hurricane scenario is based on a High Category 2 – Low Category 3 storm making landfall in near proximity to Fort Pierce, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/04/2004)*** forecast.

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Debris Model

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

Generated By:
Terry Siemsen

Generated Date:
0630 EDT
09/04/2004

Hurricane Frances Debris Model

Landfall Expected Within **18** Hours

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State	County	Yards Per County
Florida		
	Brevard	2,405,000
	Glades	1,000
	Hardee	2,000
	Highlands	53,000
	Hillsborough	16,000
	Indian River	2,997,000
	Lake	32,000
	Martin	1,414,000
	Okeechobee	76,000
	Orange	935,000
	Osceola	298,000
	Palm Beach	928,000
	Pasco	83,000
	Polk	850,000
	Seminole	12,000
	St Lucie	3,599,000
	Sumter	3,000
	Volusia	1,000
TOTAL		13,705,000

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Debris Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

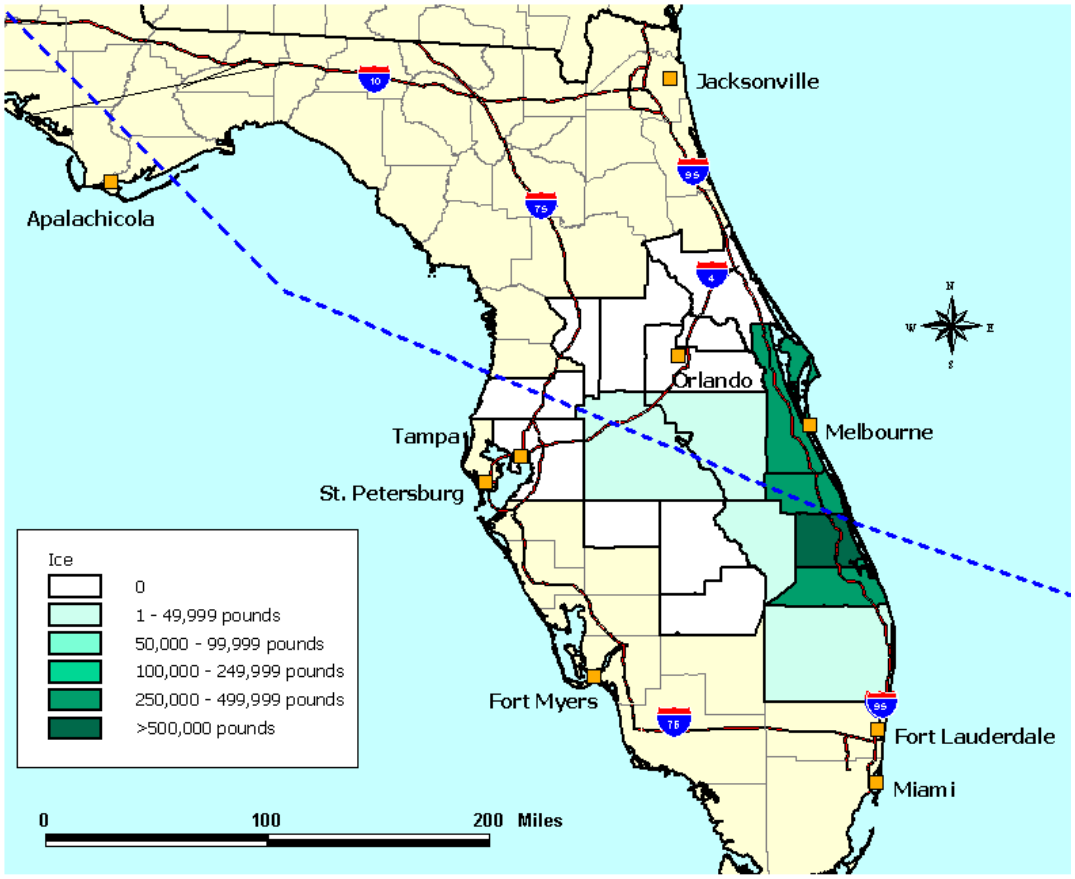
Generated Date:
0600 EDT
09/04/2004

CELRL-OP GIS Group

Hurricane Frances Ice Model

Landfall Expected Within **18** Hours

For Official Use Only!



Most Probable Landfall Ice Model Results

Florida – 1,971,000 pounds

Model results per county on following page

This hurricane scenario is based on a High Category 2 – Low Category 3 storm making landfall in near proximity to Fort Pierce, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/04/2004)*** forecast. The intensity of this hurricane has been altered to complete model runs.

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per day per person) and Ice SME input and represents a first day daily need.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Ice Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0600 EDT
09/04/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Frances Ice Model

Landfall Expected Within **18** Hours

For Official Use Only!

State	County	Pounds Per County
Florida		
	Brevard	462,000
	Indian River	489,000
	Martin	291,000
	Okeechobee	3,000
	Osceola	5,000
	Palm Beach	30,000
	Polk	3,000
	St Lucie	688,000
TOTAL		1,971,000

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per person) and Ice SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Frances will have power outage in this area will cause a need for ice.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Ice Model

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

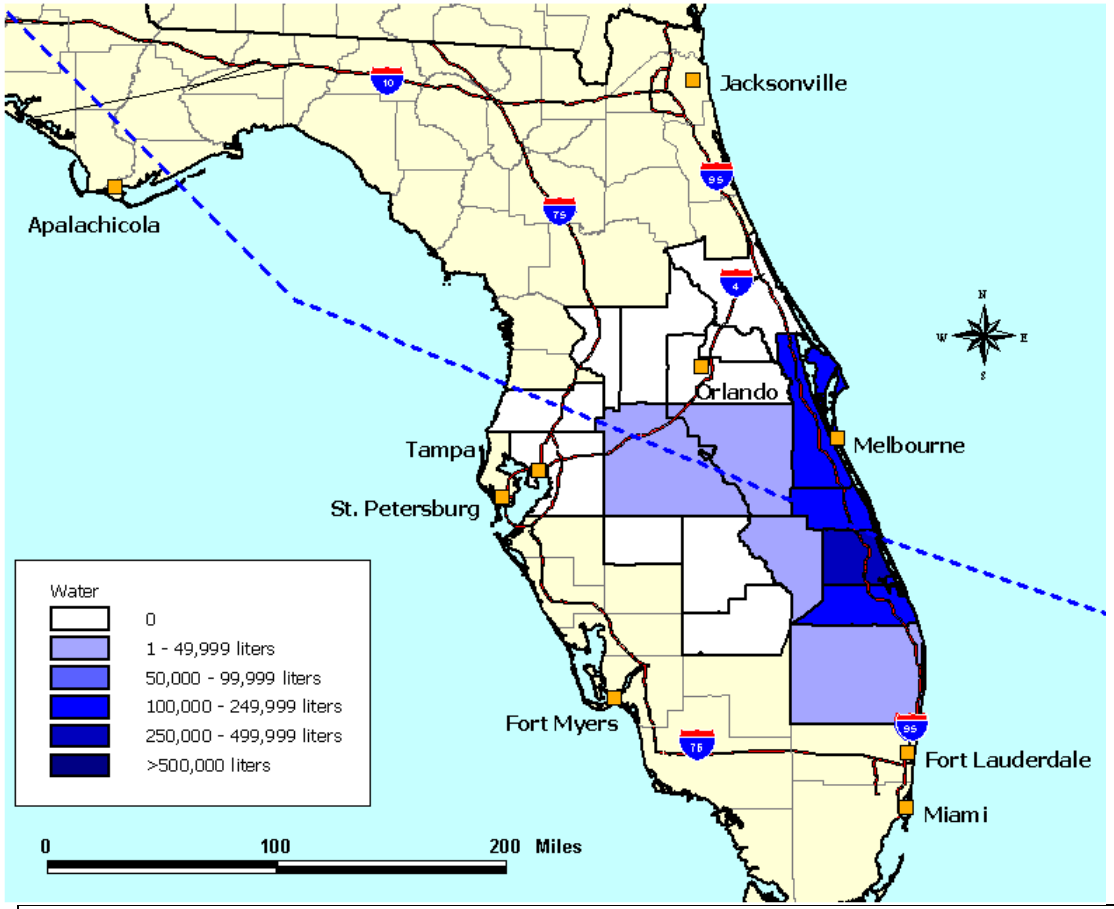
Generated By:
Terry Siemsen

Generated Date
1230 EDT
09/04/2004

Hurricane Frances Water Model

Landfall Expected Within **18** Hours

For Official Use Only!



Most Probable Landfall Water Model Results

Florida – liters

Model results per county on following page

This hurricane scenario is based on a High Category 2 – Low Category 3 storm making landfall in near proximity to Fort Pierce, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/04/2004)*** forecast.

The amount of water forecasted is based on Mission Guide Book requirements (4 liters per person per day) and Water SME input and represents a first day daily need.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Water Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
09/04/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Frances Water Model

Landfall Expected Within **18** Hours

For Official Use Only!

State	County	Liters Per County
Florida		
	Brevard	231,000
	Indian River	243,000
	Martin	145,000
	Okeechobee	3,000
	Osceola	5,000
	Palm Beach	15,000
	Polk	2,000
	St Lucie	344,000
TOTAL		988,000

The amount of water forecasted is based on Mission Guide Book requirements (4 liters per person) and Water SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Frances will have power outage in this area will cause a need for water.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Water Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
09/04/2004

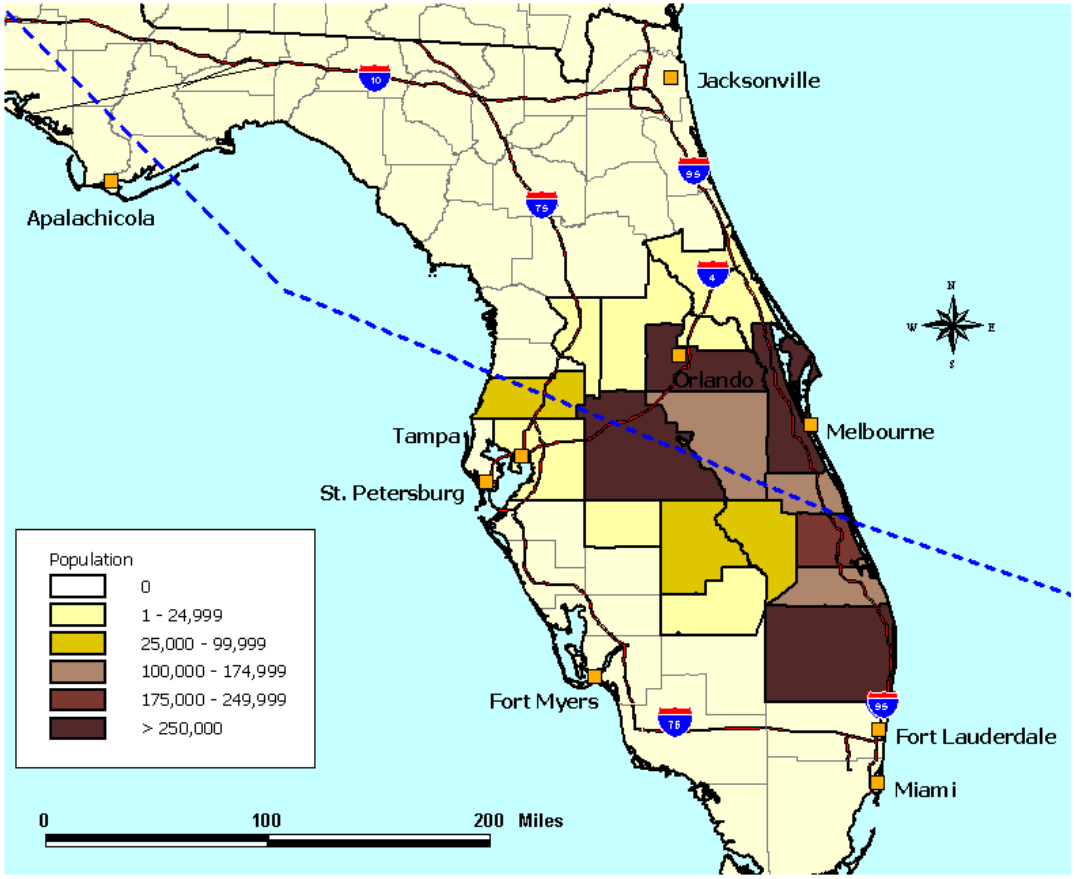
CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Frances Population Model

Landfall Expected Within **18** Hours

For Official Use Only!



Most Probable Landfall Population Model Results

Florida – 2,540,000 persons

Model results per county on following page

This hurricane scenario is based on a High Category 2 – Low Category 3 storm making landfall in near proximity to Fort Pierce, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/04/2004)*** forecast.

The number of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Population Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
0630 EDT
09/04/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Frances Population Model

Landfall Expected Within **18** Hours

For Official Use Only!

State	County	Population
Florida		
	Brevard	468,000
	Glades	< 1,000
	Hardee	< 1,000
	Highlands	29,000
	Hillsborough	9,000
	Indian River	112,000
	Lake	17,000
	Martin	125,000
	Okeechobee	34,000
	Orange	489,000
	Osceola	173,000
	Palm Beach	386,000
	Pasco	37,000
	Polk	462,000
	Seminole	4,000
	St Lucie	193,000
	Sumter	2,000
	Volusia	< 1,000
TOTAL		2,540,000

The number of persons estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Population Model

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

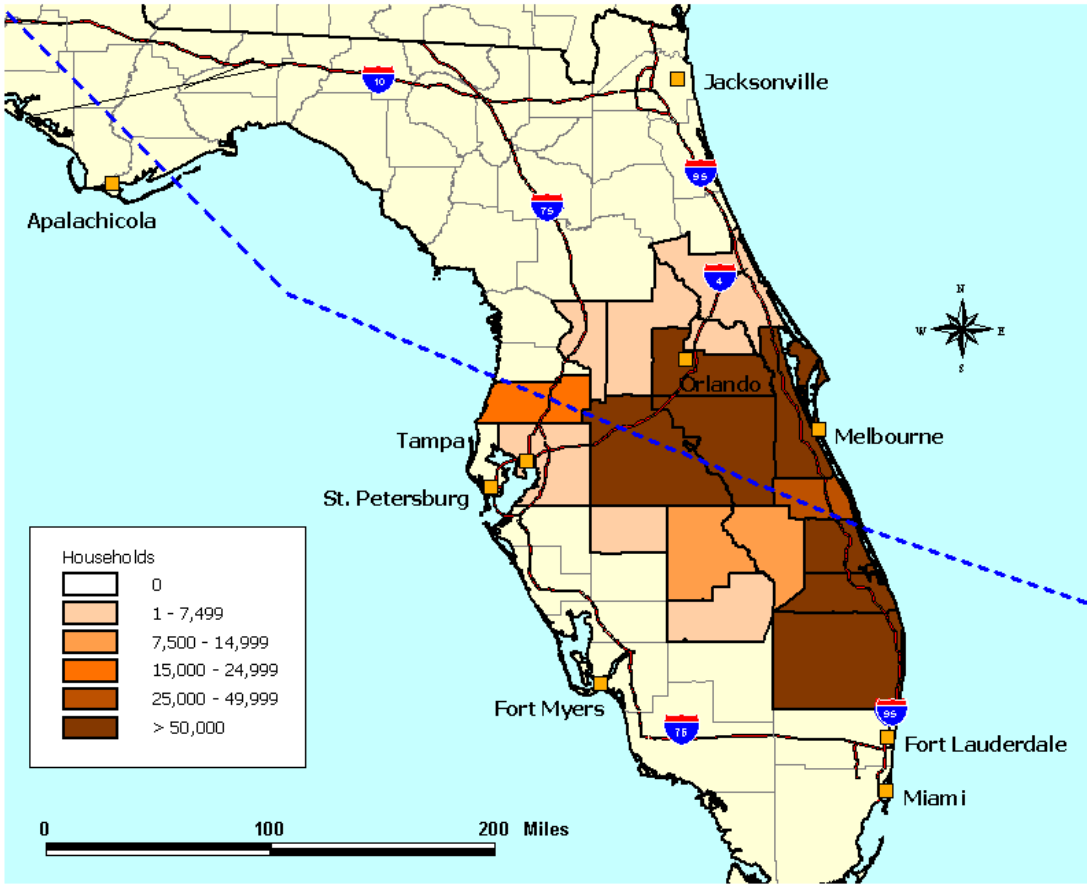
Generated By:
Terry Siemsen

Generated Date
0630 EDT
09/04/2004

Hurricane Frances Households Model

Landfall Expected Within **18** Hours

For Official Use Only!



Most Probable Landfall Households Model Results

Florida – 1,012,000 households

Model results per county on following page

This hurricane scenario is based on a High Category 2 – Low Category 3 storm making landfall in near proximity to Fort Pierce, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/04/2004)*** forecast.

The number of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Households Model

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

Generated By:
Terry Siemsen

Generated Date
0630 EDT
09/04/2004

Hurricane Frances Households Model

Landfall Expected Within **18** Hours

For Official Use Only!

State	County	Households
Florida		
	Brevard	195,000
	Glades	< 1,000
	Hardee	< 1,000
	Highlands	12,000
	Hillsborough	3,000
	Indian River	49,000
	Lake	7,000
	Martin	55,000
	Okeechobee	12,000
	Orange	183,000
	Osceola	61,000
	Palm Beach	160,000
	Pasco	17,000
	Polk	180,000
	Seminole	1,000
	St Lucie	77,000
	Sumter	< 1,000
	Volusia	< 1,000
TOTAL		1,012,000

The number of households estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Households Model

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

Generated By:
Terry Siemsen

Generated Date
0630 EDT
09/04/2004